



EXPERIMENT - 6

Object Oriented Programming Lab

Aim

To create a class TIME with members hours, minutes and seconds. Take input, add two-time objects and passing objects to function and display the result.

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EXPERIMENT – 6

Aim:

To create a class TIME with members hours, minutes and seconds. Take input, add two-time objects and passing objects to function and display the result.

Source Code:

```
#include <iostream>
using namespace std;
class times{
    int seconds, minutes, hours;

public:
    void getTime(int h, int m, int s){
        hours = h;
        minutes = m;
        seconds = s;
    }

    void putTime(){
        cout << "The time is " << hours << " hours " << minutes << " minutes
" << seconds << " seconds\n";
    }

    void sum(times, times);
};

void times::sum(times t1, times t2){
    seconds = t1.seconds + t2.seconds;
    minutes = seconds / 60;
```

```

        seconds %= 60;
        minutes += t1.minutes + t2.minutes;
        hours = minutes / 60;
        minutes %= 60;
        hours += t1.hours + t2.hours;
    }

int main(){
    times t1, t2, t3;
    t1.getTime(1, 2, 30);
    t2.getTime(4, 5, 55);
    t3.sum(t1, t2);
    t1.putTime();
    t2.putTime();
    t3.putTime();
    int hour1, minute1, second1, hour2, minute2, second2;
    cout << "Time - 1 \n Enter Hour, minute and second " << endl;
    cin >> hour1 >> minute1 >> second1;
    cout << "Time - 2 \n Enter Hour, minute and second " << endl;
    cin >> hour2 >> minute2 >> second2;
    t1.getTime(hour1, minute1, second1);
    t2.getTime(hour2, minute2, second2);
    t3.sum(t1, t2);
    t1.putTime();
    t2.putTime();
    t3.putTime();
    return 0;
}

```

Output:

```
PS D:\sem 4\cpp\oops> cd "d:\sem 4\cpp\oops\" ; if ($?) { g++ time.cpp -o time } ; if ($?) { .\time }
The time is 1 hours 2 minutes 30 seconds
The time is 4 hours 5 minutes 55 seconds
The time is 5 hours 8 minutes 25 seconds
PS D:\sem 4\cpp\oops> █
```

```
PS D:\sem 4\cpp\oops> cd "d:\sem 4\cpp\oops\" ; if ($?) { g++ time.cpp -o time } ; if ($?) { .\time }
The time is 4 hours 5 minutes 55 seconds
The time is 5 hours 8 minutes 25 seconds
Time - 1
  Enter Hour, minute and second
6 25 30
Time - 2
  Enter Hour, minute and second
7 30 50
The time is 6 hours 25 minutes 30 seconds
The time is 7 hours 30 minutes 50 seconds
The time is 13 hours 56 minutes 20 seconds
PS D:\sem 4\cpp\oops> █
```